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SPECIFICATION

TITLE

SPACE-SAVING ANTENNA ARRANGEMENT FOR HEARING AID DEVICE

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

[0001] The invention concerns a hearing aid device with at least one microphone to acquire an acoustic input signal and transduce it into an electrical signal, a signal processing unit to process the electrical signal, an earpiece to transduce the electrical signal into an acoustic signal and, with an antenna coil, to wirelessly transmit data between the hearing aid device and a further device.

[0002] Furthermore, the invention concerns a hearing aid device with at least one microphone to acquire an acoustic input signal and transduce it into an electrical signal, a signal processing unit to process the electrical signal, an earpiece to transduce the electrical signal into an acoustic signal and, with an antenna coil, to wirelessly transmit data between the hearing aid device and a further device, whereby the earpiece is enclosed by at least one shielding plate or one shielding capsule.

DESCRIPTION OF THE RELATED ART

[0003] A hearing aid with an inductive coil is known from German patent document DE 43 19 599 C1, the coil being arranged embedded in a recess in a printed circuit board.

[0004] A sound transducer for hearing aids is known from German patent document DE 690 31 432 T2, in which a coil is attached on a flexible carrier.

[0005] A regulating implant to normalize cerebro-spinal fluid pressure is known from German patent document DE 199 15 558 C2, in which an antenna is arranged on the surface of a chip.

[0006] An induction coil for hearing aids is known from German patent document DE 43 26 358 C1 which comprises a coil body made from mu-metal.